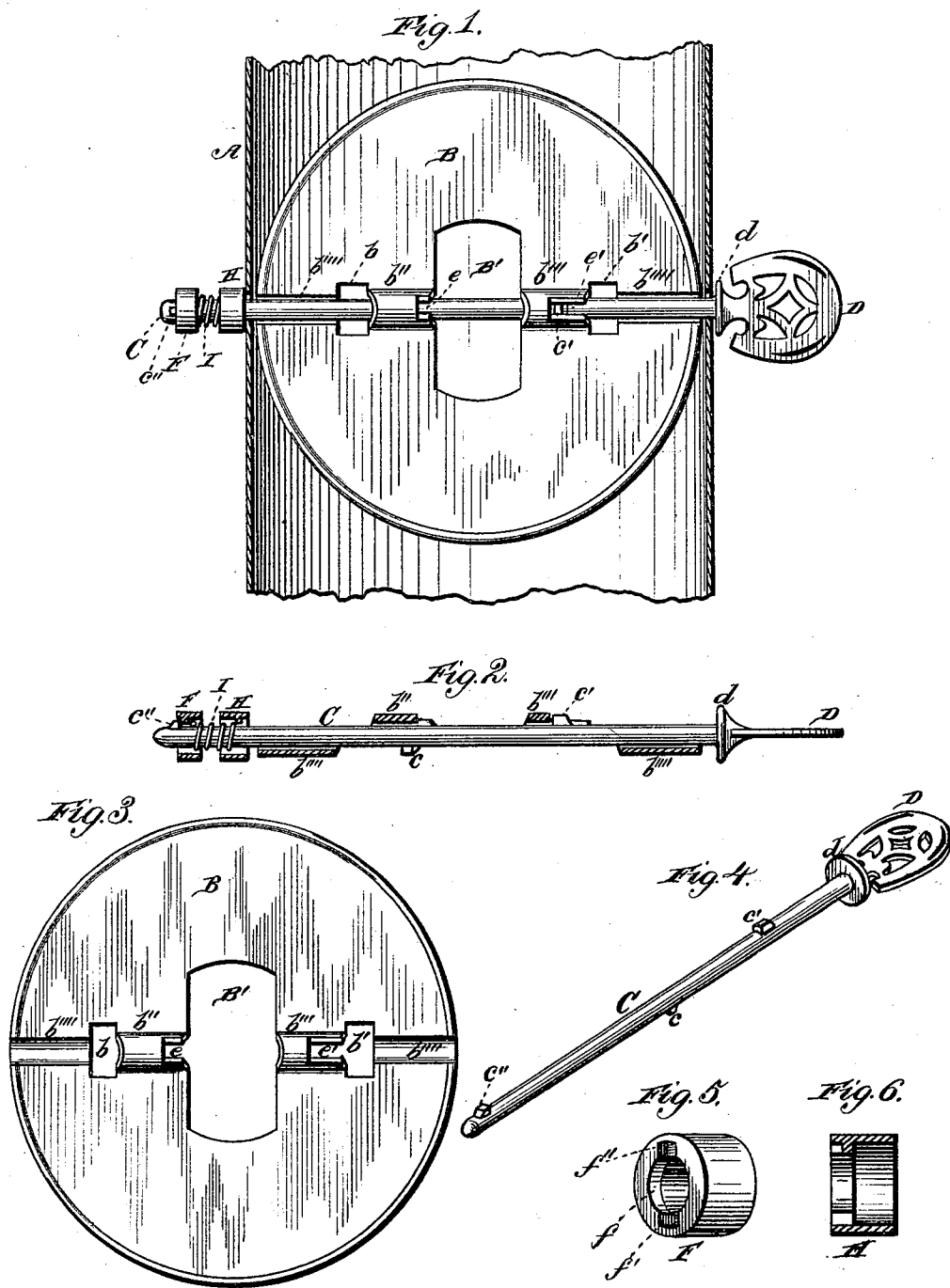


(Model.)

U. B. WINCHELL.
Stovepipe Damper.

No. 234,366.

Patented Nov. 9, 1880.



WITNESSES
Robert Everett
W. H. Singleton

By *his Attorney*

INVENTOR
U. B. Winchell
E. W. Anderson

UNITED STATES PATENT OFFICE.

URIAH B. WINCHELL, OF OAK HILL, NEW YORK.

STOVE-PIPE DAMPER.

SPECIFICATION forming part of Letters Patent No. 234,366, dated November 9, 1880.

Application filed October 2, 1880. (Model.)

To all whom it may concern:

Be it known that I, URIAH B. WINCHELL, of Oak Hill, in the county of Greene and State of New York, have invented a new and valuable Improvement in Stove-Pipe Dampers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of the device applied to a stove-pipe. Fig. 2 is a sectional view of the damper-plate with the stem inserted. Fig. 3 is a view of the damper-plate. Fig. 4 is a view of the stem. Figs. 5 and 6 are views of the caps.

This invention relates to devices for regulating draft in stove-pipes.

It has for its object the construction of a damper in which the parts are arranged one way in use and in another for packing.

It consists in a damper of peculiar construction arranged to accomplish the object sought.

In the annexed drawings, A is a portion of a stove-pipe, B the damper-plate, and C the stem.

The plate B has three slots, B' b b', and running along its diameter transverse of the slots four semi-tubular bearings, b'' b''' b'''' b''', the former two being between the large slot B' and the smaller slots b b', and curved in the direction opposite to bearings b'''' b''', which latter are between the small slots b b' and the periphery of the plate.

The semi-tubular bearing b'' has a slot, e, immediately at the side of large slot B', and semi-tubular bearing b''' has a slot, e', immediately at the inner side of slot b', the latter slot, e', being much longer than slot e.

Stem C has a handle, D, with collar d to prevent its going too far into the pipe.

Upon the main body of the stem, within the pipe, there are formed two lugs, c c', situated upon diametrically-opposite points upon said rod and at some distance apart with regard to its length. Upon the other end of the stem C, opposite to the handle D, there is a lug, c''.

F, Fig. 5, is a tubular cap having opening f. To one side of this opening f there is a slot, f', and at the other side a recess, f''.

H, Fig. 6, is another tubular cap constructed like cap F. I is a spiral spring.

In putting the device into use the plate B is inserted into the pipe A and stem C is run into place with lug c' resting in slot e' of semi-tubular bearing b''', the lug c being upon the opposite side. Cap H is then placed upon the stem with the opening toward the pipe. The spiral spring I is then put upon the stem, and after that cap F, with its opening outside and turned so that the lug c'' rests in recess f''.

By this arrangement the damper is held firmly within the pipe without touching the same, and the spring operates to hold the damper at any position at which it may be set.

When it is desired to pack the device the caps and spring are removed and the stem drawn from the plate and the whole removed. The stem C is then run into the semi-tubular bearings and the lug c fitted into slot e. The caps H and F and spring I are then put in place.

It will now be seen that by the difference in lengths of the slots e and e' the position of the stem in the plate is varied, and that when arranged for packing the stem is not pushed as far in the plate as when in use; hence the distance between the two caps F and H is less, the spring is more compressed, and hence holds the parts tightly together and prevents their coming apart and consequent loss.

Having thus described my invention, what I claim is—

A damper for stove-pipes, consisting of plate B, having semi-tubular bearings b'''' b''' b'', the bearing b''' having a slot, e', and the bearing b'' a slot, e, slot e being shorter than slot e', the stem C, having lug c' adapted to engage slot e', and lug c adapted to engage slot e, and lug c'', the caps F and H, having slotted openings and recess, and spring I, the whole forming a device adapted for one position in use and another position when packed.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

URIAH B. WINCHELL.

Witnesses:

HIRAM DIETZ,
PHILIP B. HISERD.